SQUID GAME

Micro:bit - Squid Game

6 player game where players are eliminated in turn by an electric shock, the winner is the 'last person standing'!!

Custom PWM

servo-switch sends

high voltage to

each leg

Micro:bit

MOSFET on/off switch for high voltage supply

> Fusion3D CAD Laser-cut and 3D printed enclosure

> > THANK YOU 🌾 LEONARDO for the work-experience and Micro:bit!

Micro:bit Project - Squid Game

I created a fun game using the Micro:bit. You can play with up to 6 players and the winner is the 'last man standing'.

Similar to 'Russian Roulette', on each round, one person goes out with a small electric shock through their fingers.



The Build:

First was the code. I wrote this in 'micro python', using Visual Studio Code. It checks for a button press to initiate the timer before sending power to a random player selected, using a PWM controlled servo.





Next was the electronics. The main components include:

- Micro:bit
- Servo This mechanically switches the high voltage to the player selected
- High voltage converter from 6v to ~2000v
- Home-made circuit board handles turning on the high voltage converter
- 5v regulator



Finally, the assembly. It was quite a tight fit squeezing everything is such a small container.

Then the CAD. I modelled the case in 'Fusion 360', so then I could 3D print it.

I also laser cut the base and the mount for the servo.

